## WHAT IS CLAIMED IS:

- 1. A bottling plant for filling bottles with liquid beverage filling material, said bottling plant comprising:
- a filling machine being configured and disposed to fill cleaned bottles with liquid beverage filling material;

said filling machine comprising:

- a rotor being configured and disposed to rotate around a vertical machine axis and having a peripheral portion;
- a plurality of filling positions disposed at said peripheral portion of said rotor;

each of said plurality of filling positions comprising:

- a bottle carrier being configured and disposed to provide bottles for filling;
- a filling device being disposed above a bottle carrier and configured to fill a bottle disposed on said bottler carrier;

each filling device comprising:

apparatus configured to introduce a predetermined volume of liquid beverage filling material into the interior of bottles to a predetermined level of liquid beverage filling material;

apparatus configured to terminate the filling of bottles upon liquid beverage filling material reaching the predetermined level in bottles;

a cleaning station being configured and disposed to clean bottles prior to filling with a liquid beverage filling material;

apparatus configured and disposed to move bottles to said

cleaning station;

said cleaning apparatus comprising:

a body comprising an interior, and exterior, an inlet structure, and an outlet structure;

said interior comprising a chamber;

said inlet structure comprising a first nozzle being configured and disposed in a first position to inject a jet of air in a first direction into and against a wall of said chamber;

said inlet structure comprising a second nozzle being configured and disposed in a second position to inject a jet of cleaning medium in a second direction into said chamber;

the first direction being transverse to the second direction; said first nozzle and said second nozzle being configured and disposed to direct a stream of air laden with cleaning medium droplets against a wall of said chamber;

apparatus being configured and disposed to heat said chamber to a temperature sufficient to vaporize cleaning medium droplets deposited on the wall of said chamber;

said outlet structure also being configured and disposed to permit delivery of a mixture of air and vaporized cleaning medium through said outlet structure of said body and into the interior of a bottle to be cleaned: and

apparatus being configured and disposed to terminate delivery of a mixture of air and vaporized cleaning medium from said outlet structure;

a closing station being configured and disposed to close bottles filled with liquid beverage filling material;

apparatus being configured and disposed to move bottles filled with liquid beverage filling material from said filling machine to said closing station;

apparatus being configured and disposed to containerize bottles filled with liquid beverage filling material;

apparatus being configured and disposed to move filled bottles from said closing station to said containerization station; and

control apparatus being configured and disposed to control at least operation of said filling machine.

2. The bottling plant according to claim 1, wherein: said body comprises an interior having a width dimension; said air nozzle is configured to generate a jet of air, being a jet of air substantially narrower than said interior width dimension;

said vaporization chamber comprises an annular chamber having two circular annular concentric walls;

said air nozzle is positioned to direct a jet of air tangential to a concentric circular path disposed between said two circular annular concentric walls.

- 3. The bottling plant according to claim 2, comprising all of:
- (a), (b), (c), (d), (e), (f), (g), (h), (i), (j), and (k), wherein (a), (b),
- (c), (d), (e), (f), (g), (h), (i), (j), and (k) comprise:
- (a) said interior comprises a chamber having at least one wall configured to be heated by said heating apparatus to vaporize cleaning medium deposited on said at least one wall;
  - (b) said body comprises a plurality of passages configured and

disposed to connect said annular vaporization chamber and said outlet structure with one another;

said heating apparatus is configured and disposed to heat said plurality of passages to maintain a mixture of air and cleaning medium within said plurality of passages at at least a temperature at which cleaning medium is vaporized;

(c) said body comprises a collecting chamber configured and disposed to store a mixture of air and vaporized cleaning medium;

said collecting chamber is connected between said annular vaporization chamber and said outlet structure;

- (d) said body comprises a plurality of passages configured and disposed to connect said annular vaporization chamber and said collecting chamber with one another;
- (e) said heating apparatus is configured and disposed to heat said plurality of passages to maintain a mixture of air and cleaning medium within said plurality of passages at at least a temperature at which cleaning medium is vaporized;
- (f) said cleaning medium nozzle comprises a structure configured to inject hydrogen peroxide present in an aqueous solution as a cleaning medium and said cleaning medium nozzle is configured to withstand the cleaning medium;
- (g) said plurality of passages comprise at least one of: straight passages and circuitous passages;
- (h) said body comprises apparatus configured and disposed to terminate the flow of a mixture of air and cleaning medium;
- (i) said body comprises at least a first portion and a second portion; and

fasteners to connect said first portion and said second portion to one another;

- (j) said outlet structure comprises a structure configured and disposed to inject a mixture of air and cleaning medium into the interior of a container to be cleaned; and
- (k) said collecting chamber comprises an annular chamber having two circular annular concentric walls.
- 4. A method of operating a cleaning station configured to clean containers in a container filling plant configured to fill beverage containers with a liquid beverage filling material, said container cleaning station comprising: a body comprising an inlet structure and an outlet structure; said inlet structure comprising a structure being configured and disposed to provide a flow of air in a first direction; said inlet structure comprising a structure being configured and disposed to provide a flow of cleaning medium in a second direction transverse to the flow of air to mix air and cleaning medium; a heating arrangement being configured and disposed to heat and vaporize cleaning medium in said body; and said outlet structure being configured and disposed to direct delivery of a mixture of air and vaporized cleaning medium onto at least one surface of a container to be cleaned; said method comprising the steps of:

injecting a flow of air in a first direction into said body with said structure being configured and disposed to provide a flow of air in a first direction;

impinging said flow of air with a flow of cleaning medium in a second direction with said structure being configured and disposed to

provide a flow of cleaning medium in a second direction, which second direction being transverse to the flow of air to mix air and cleaning medium;

vaporizing cleaning medium in said body; and directing a mixture of air and vaporized cleaning medium onto at least one surface of a container to be cleaned.

5. The method of operating a cleaning station configured to clean containers according to claim 4, wherein said body comprises an interior having a width dimension; said structure configured to provide a flow of air comprises a nozzle configured to generate a jet of air, being a jet of air substantially narrower than said interior width dimension; said interior comprises a chamber configured to vaporize cleaning medium; said vaporization chamber comprises an annular chamber having two circular annular concentric walls; said structure being configured and disposed to inject a flow of air in a first direction into said interior comprises a nozzle; said air nozzle is positioned to direct a jet of air tangential to a concentric circular path disposed between said two circular annular concentric walls; said method further comprising the steps of:

injecting a jet of air, substantially narrower than said interior width dimension, in the first direction; and

injecting a jet of air tangential to the concentric circular path disposed between said two circular annular concentric walls.

6. The method of operating a cleaning station configured to clean containers according to claim 5, comprising all of: (a), (b), (c),

- (d), (e), (f), (g), (h), (i), (j), and (k), wherein (a), (b), (c), (d), (e), (f), (g), (h), (i), (j), and (k) comprise:
- (a) said interior comprises a chamber having at least one wall configured to be heated by said heating arrangement to vaporize cleaning medium deposited on said at least one wall;

comprising the step of:

vaporizing cleaning medium deposited on said at least one wall:

(b) said body comprises a plurality of passages configured and disposed to connect said annular vaporization chamber and said outlet structure with one another;

said heating arrangement is configured and disposed to heat said plurality of passages to maintain a mixture of air and cleaning medium within said plurality of passages at at least a temperature at which cleaning medium is vaporized;

comprising the step of:

maintaining a mixture of air and cleaning medium within said plurality of passages at at least a temperature at which cleaning medium is vaporized;

(c) said body comprises a collecting chamber configured and disposed to store a mixture of air and vaporized cleaning medium;

said collecting chamber is connected between said annular vaporization chamber and said outlet structure;

comprising the step of:

storing a mixture of air and vaporized cleaning medium in said collecting chamber;

(d) said body comprises a plurality of passages configured and

disposed to connect said annular vaporization chamber and said collecting chamber with one another;

comprising the step of:

passing a mixture of air and vaporized cleaning medium from said annular vaporization chamber through said plurality of passages into said collecting chamber;

(e) said heating arrangement is configured and disposed to heat said plurality of passages to maintain a mixture of air and cleaning medium within said plurality of passages at at least a temperature at which cleaning medium is vaporized;

comprising the step of:

maintaining a mixture of air and cleaning medium within said plurality of passages at at least a temperature at which cleaning medium is vaporized;

(f) said cleaning medium nozzle comprises a structure configured to inject hydrogen peroxide in an aqueous solution as a cleaning medium and said cleaning medium nozzle is configured to withstand the cleaning medium;

comprising the step of:

injecting hydrogen peroxide in an aqueoeus solution as medium;

- (g) said plurality of passages comprise at least one of: straight passages and circuitous passages;
- (h) said body comprises apparatus configured and disposed to terminate the flow of a mixture of air and cleaning medium;

comprising the step of:

terminating the flow of a mixture of air and cleaning

medium;

(i) said body comprises at least a first portion and a second portion; and

fasteners to connect said first portion and said second portion to one another;

(j) said outlet structure comprises a structure configured and disposed to inject a mixture of air and cleaning medium into the interior of a container to be cleaned;

comprising the step of:

injecting a mixture of air and cleaning medium into the interior of a container to be cleaned; and

- (k) said collecting chamber comprises an annular chamber having two circular annular concentric walls.
- 7. A cleaning station for a container filling plant configured to fill beverage containers with a liquid beverage filling material, said cleaning station comprising:
- a body comprising an inlet structure and an outlet structure; said inlet structure comprising a structure being configured and disposed to provide a flow of air in a first direction;

said inlet structure comprising a structure being configured and disposed to provide a flow of cleaning medium in a second direction transverse to the flow of air to mix air and cleaning medium;

a heating arrangement being configured and disposed to heat and vaporize cleaning medium in said body; and

said outlet structure being configured and disposed to direct delivery of a mixture of air and vaporized cleaning medium onto at

least one surface of a container to be cleaned.

- 8. The cleaning station according to claim 7, wherein: said body comprises an interior having a width dimension; and said structure configured to provide a flow of air comprises a nozzle configured to generate a jet of air, being a jet of air substantially narrower than said interior width dimension.
- The cleaning station according to claim 8, wherein: said structure configured to provide a flow of cleaning medium comprises a nozzle configured to generate a liquid jet of cleaning medium.
- 10. The cleaning station according to claim 9, wherein: said interior comprises a chamber having at least one wall configured to be heated by said heating arrangement to vaporize cleaning medium deposited on said at least one wall.
- 11. The cleaning station according to claim 10, wherein: said vaporization chamber comprises an annular chamber having two circular annular concentric walls; and

said air jet nozzle is positioned to direct a jet of air tangential to a concentric circular path disposed between said two circular annular concentric walls.

12. The cleaning station according to claim 11, wherein: said body comprises a collecting chamber configured and

disposed to store a mixture of air and vaporized cleaning medium; and

said collecting chamber is connected between said annular vaporization chamber and said outlet structure.

- 13. The cleaning station according to claim 12, wherein: said body comprises a plurality of passages configured and disposed to connect said annular vaporization chamber and said collecting chamber with one another.
- 14. The cleaning station according to claim 13, wherein: said heating arrangement is configured and disposed to heat said plurality of passages to maintain a mixture of air and cleaning medium within said plurality of passages at at least a temperature at which cleaning medium is vaporized.
- 15. The cleaning station according to claim 14, wherein: said cleaning medium nozzle comprises a structure configured to inject hydrogen peroxide present in an aqueous solution as a cleaning medium and said cleaning medium nozzle is configured to withstand the cleaning medium.
- 16. The cleaning station according to claim 15, wherein: said plurality of passages comprise at least one of: straight passages and circuitous passages.
  - 17. The cleaning station according to claim 16, wherein:

said body comprises apparatus configured and disposed to terminate the flow of a mixture of air and cleaning medium.

18. The cleaning station according to claim 17, wherein: said body comprises at least a first portion and a second portion; and

fasteners to connect said first portion and said second portion to one another.

- 19. The cleaning sation according to claim 18, wherein: said outlet structure comprises a structure configured and disposed to inject a mixture of air and cleaning medium into the interior of a container to be cleaned.
- 20. The cleaning station according to claim 19, wherein: said collecting chamber comprises an annular chamber having two circular annular concentric walls.